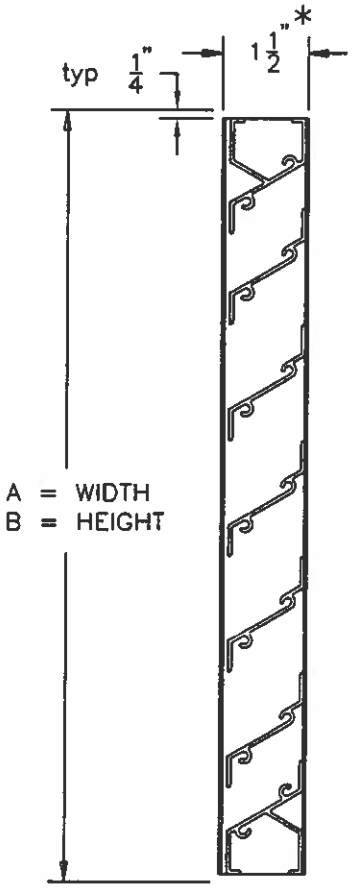
EXTRUDED ALUMINUM, 1–1/2" DEEP, FIXED J/K TYPE BLADE



SECTION VIEW

MODEL TE–15
STANDARD SPECIFICATION

FRAME: 1–1/2" DEEP CHANNEL, .063 THICK 6063–T5 ALUMINUM ALLOY

BLADES: .063" THICK 6063–T5 ALUMINUM ALLOY.

SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED INTERIOR.

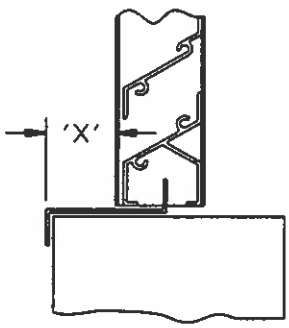
FINISH: MILL.

MAX. PANEL SIZE: 96" x 96"

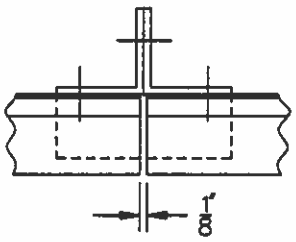
MIN. PANEL SIZE: 12" x 12"

DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZED

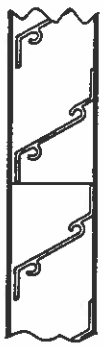
* PANELS OVER 36" WIDE WILL BE 3" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.



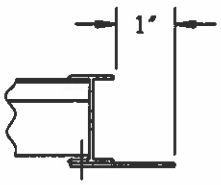
EXTENDED SILL
OPTIONAL



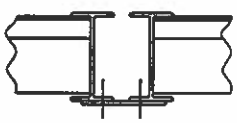
ARCHITECTURAL
OPTIONAL



STANDARD HORIZONTAL MULLION



FLANGED FRAME
OPTIONAL
(JAMB SHOWN)



STANDARD VERTICAL MULLION

amca CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE

L&D certifies that the model TE–15 louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings.

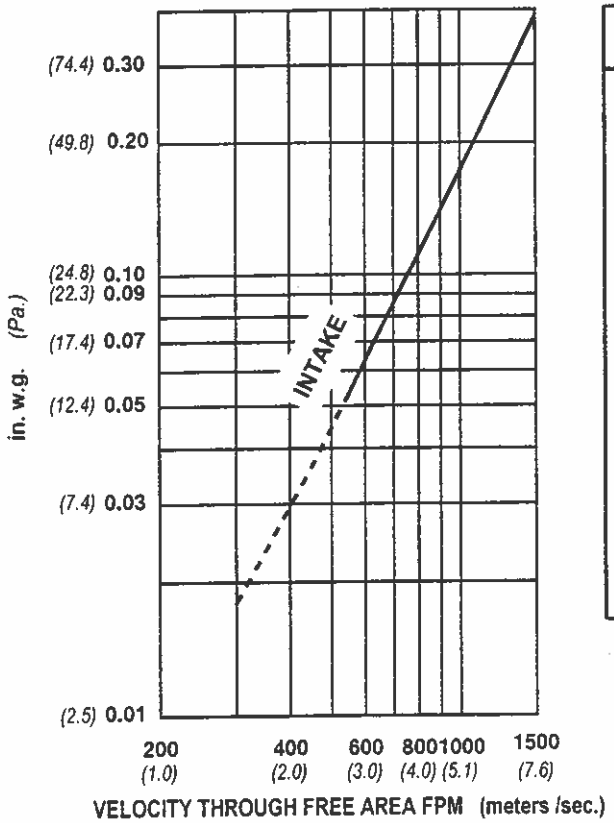
LOUVERS & DAMPERS
A MESTEK COMPANY
7435 INDUSTRIAL ROAD FLORENCE, KY
Phone (859) 647–2299 Fax (859) 647–7810

TE–15 STATIONARY LOUVER

DRN. BY	DWG. NO.	REV.
ESS	TE–15	
DATE 12–01–02		

Water Penetration : **.01 oz.** *(3.0 g.)* **at 519 fpm** *(2.63 m/s)* **recommended free area velocity**
Pressure Drop : **.048 in. wg.** *(12.1 Pa.)* **at 519 fpm** *(2.63 m/s)* **and 3685 SCFM** *(1.74 scm/s)*
Free Area : **7.54 sq.ft.** *(0.70 sq. m.)* **= 47% for 48" x 48"** *(1.22 m x 1.22 m)* **test size**

PRESSURE DROP

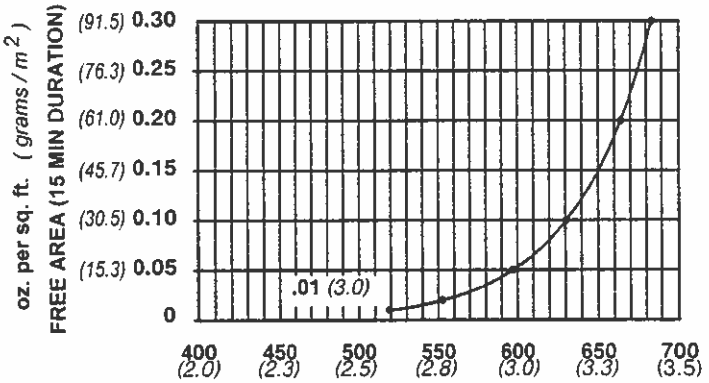


standard air - .075 lbs. per cu. ft.
Ratings do not include the effect of a bird screen

FREE AREA IN SQUARE FEET *(sq. meters)*

HEIGHT	WIDTH							
in	12	24	36	48	60	72	84	96
mm	304	609	914	1219	1524	1828	2133	2438
12	0.33	0.73	1.14	1.54	1.95	2.35	2.71	3.11
304	0.03	0.07	0.11	0.14	0.18	0.22	0.25	0.29
24	0.74	1.64	2.55	3.45	4.36	5.26	6.05	6.96
609	0.07	0.15	0.24	0.32	0.40	0.49	0.56	0.65
36	1.14	2.55	3.95	5.36	6.76	8.17	9.40	10.80
914	0.11	0.24	0.37	0.50	0.63	0.76	0.87	1.00
48	1.55	3.45	5.36	7.54	9.17	11.07	12.74	14.64
1219	0.14	0.32	0.50	0.70	0.85	1.03	1.18	1.36
60	1.95	4.36	6.76	9.17	11.57	13.98	16.08	18.49
1524	0.18	0.40	0.63	0.85	1.08	1.30	1.49	1.72
72	2.36	5.27	8.17	11.08	13.98	16.89	19.43	22.33
1828	0.22	0.49	0.76	1.03	1.30	1.57	1.80	2.07
84	2.77	6.17	9.58	12.98	16.39	19.79	22.77	26.18
2133	0.26	0.57	0.89	1.21	1.52	1.84	2.12	2.43
96	3.17	7.08	10.98	14.89	18.79	22.70	26.11	30.02
2438	0.29	0.66	1.02	1.38	1.75	2.11	2.43	2.79

WATER PENETRATION



Both maximum recommended free area velocity and begining of water penetration are 519 fpm at standard air - .075 lbs. per cu. ft. The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511.

amca CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INC.

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TE-15

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusally high wind loading may require structural supports on non-multiple wide and multiple high assemblies. **Structural supports and mounting accessories are not supplied as a standard.**

Below is an explanation of how to use the AMCA performance data for the recommended free area velocity of 519 fpm *(2.63 m/s)*.

To determine minimum free area required for louver:
Step #1: Divide the required CFM flow by the maximum recommended free area velocity.
Step #2: Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.
Step #3: Compare specified performance to the certified water penetration and pressure drop ratings.

Example: Given 4,500 CFM design flow
Step #1:
min. free area = $\frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}$
$= \frac{4,500}{519}$ = **8.67 sq. ft.**

Step #2: From the free area table above the approximate louver size is **48" x 60"** = (8.97 sq. ft.)